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DATE MAILED: 12/20/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/937,756	01/07/2002	Adrien Robert Leigh Travis	HLK-102-A	5359		
759	90 12/20/2002					
Young & Basile			EXAMINER			
Suite 624 3001 West Big Beaver Road			KOVAL, M	KOVAL, MELISSA J		
Troy, MI 48084	+		ART UNIT	PAPER NUMBER		
			2851			

Please find below and/or attached an Office communication concerning this application or proceeding.

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<i>3</i> '		Applicati	on No.	Applicant(s)	- DV			
		09/937,7	56	TRAVIS ET AL.				
Office Action Summary		Examine		Art Unit				
,		Melissa J	Koval	2851				
Th MAILING DATE f this communication appears on the cover she t with the correspond nce address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR (1.36(a). In no event, however, may a reply be limely filled after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified active is sets that thin (30) days, a reply which the stablery minimum of thinty (30) days, a reply with the stablery minimum of thinty (30) days, a reply with the stablery minimum of thinty (30) days, a reply with the stablery minimum of thinty (30) days, a reply with the stablery minimum of thinty (30) days, a reply within the stablery minimum of thinty (30) days, a reply within the stable reply within the stable active is the stable and the stable active is the stable active is the stable active in the stable active is								
1)[Responsive to communication(s) filed on _	·						
2a)□	This action is FINAL . 2b)⊠	This action is	non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠	Claim(s) 1-22 is/are pending in the application	tion.						
	4a) Of the above claim(s) is/are without	drawn from co	nsideration.					
5)	Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-22</u> is/are rejected.							
7)🛛	7) Claim(s) <u>2-14 and 16-21</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9)⊠ The specification is objected to by the Examiner.								
10) The drawing(s) filed on 07 January 2002 is/are: a) accepted or b) objected to by the Examiner.								
_	Applicant may not request that any objection to	• • • • • • • • • • • • • • • • • • • •	•	, ,				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
	The oath or declaration is objected to by the	Examiner.						
	under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	☑ All b)☐ Some * c)☐ None of:							
	 Certified copies of the priority documents have been received. 							
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen	at(s)							
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s		4) Interview Summary 5) Notice of Informal F 6) Other:	(PTO-413) Paper No Patent Application (PT				

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DETAILED ACTION

Information Disclosure Statement

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Drawings

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the variation of thickness with radius of the monocentric lens, and the means by which the monocentric lens provides total internal reflection must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Specification

This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

The disclosure is objected to because of the following informalities: On page 8, line 29, the word -- fulfill -- is incorrectly spelled "fulfil".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: With respect to claim 1, the optical connection of the light modulator to the ray-diverting means and the circularly symmetrical lens is not clear from the claim language. Furthermore, it is not clear where said elements comprising the projection display are structurally located with respect to one another.

Claim 5 recites the limitation "the ejection" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claims 2-4 and 6-21 are rejected as they depend from already rejected claim 1 or a claim dependent thereon.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 15 and 22 are rejected under 35 U.S.C. 102(a) as being anticipated by Vaissie et al.

Refer to Figure 2 of Vaissie et al., for example.

Claim 1 sets forth: "A flat-panel wide-field-of-view projection display comprising a disc-shaped, circularly symmetric lens collimating light from points in a focal circumference around the disc (imaging system 4), and an array of light emitters positioned along the focal circumference of the circularly symmetric lens so that light rays from each of the light emitters are substantially collimated by the lens in the plane of the lens in a different direction from its neighboring light emitters (light emitting diodes 9); a light modulator (LCD screen 2) and a ray-diverting means (splitter/mirrors 5 and 6) for ejecting the collimated light out of the plane of the lens and towards a viewer (viewer's eye 7).

With respect to claim 15, refer to column 3, lines 1 through 10.

Referring to circular symmetric lens 1 in the Figures shown by applicant as compared with Figure 3 of Vaissie et al., a lens of varying radius is shown.

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Allowable Subject Matter

Claims 2-14 and 16-18 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record neither shows nor suggests the structural limitations most particularly directed to the combination of elements comprising the projection display as set forth in claims 2 through 14, and 16 through 18.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Son et al. U.S. Patent 6,115,059 teaches a method and system for providing a multiviewing three-dimensional image using a moving aperture.

Gordon et al. U.S. Patent 4,157,218 teaches a wide angle scan camera.

Boyan U.S. Patent 4,147,419 teaches scan cameras.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa J Koval whose telephone number is (703) 308-4801. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell Adams can be reached on Monday through Thursday at (703) 308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MJK December 13, 2002

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